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 ALEXANDRIA, VA 22313-1450

1. Total number of pages including cover sheet, attachments and document: 3

2. Name of Conveying Party(ies) and Execution Date(s) of Document(s) ☐ Check here if additional name(s) attached  
 Name(s): Joseph C. Goffreda  
 Execution Date(s): November 30, 2005

3. Name and address of receiving party ☐ Check here if additional name(s) & address(es) are attached  
 Name Rutgers, The State University of New Jersey  
 Address Old Queens, Somerset Street  
 City New Brunswick State/Country NJ Zip 08903

4. Nature of Conveyance  
☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:

5. Total number of applications and patents involved: 1

6. Total Fee authorized to be charged to deposit account 02-4550 (37 C.F.R. § 3.41): \$40.00

7. ☒ Check here if any deficiency/overpayment is authorized to be charged to deposit account 02-4550

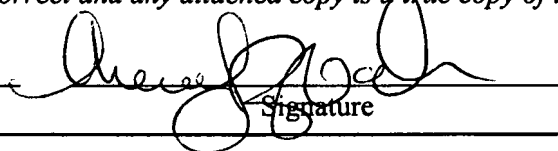
8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.  
 A. ☐ This document is being filed with a new application. Execution date is: \_\_\_\_\_  
 B. ☒ Patent Application No.(s) or Patent No.(s): PP13,819  
☐ Check here if additional numbers are attached

9. Correspondent's name, address, and telephone number  
 Sheree Lynn Rybak, Ph.D.  
 Klarquist Sparkman, LLP  
 One World Trade Center, Suite 1600  
 121 S.W. Salmon Street  
 Portland, Oregon 97204-2988  
 Telephone: 503-595-5300  
 Facsimile: 503-228-9446

10. ☐ Please return the attached postcard to confirm that these items have been received.

11. Statement and signature *To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Sheree Lynn Rybak, Ph.D.  
 Name of Person Signing

  
 Signature

December 5, 2005  
 Date

## ASSIGNMENT

WHEREAS, I, **Joseph C. Goffreda**, of Millstone Township, County of Monmouth, State of New Jersey, have invented with **Jules Janick**, of West Lafayette, County of Tippecanoe, State of Indiana, **Edwin B. Williams**, of Lafayette, County of Tippecanoe, State of Indiana, and **Schuyler S. Korban**, of Champaign, County of Champaign, State of Illinois, a certain invention entitled **APPLE TREE NAMED 'CO-OP 29'**, for which Letters Patent of the United States issued on May 13, 2003 as U.S. Patent No. PP13,819; and

WHEREAS, **Rutgers, The State University of New Jersey**, of Old Queens, Somerset Street, New Brunswick, NJ 08903, is desirous of acquiring my entire right, title, and interest in and to the said invention and improvements in and to the said application and to any patent application(s) corresponding thereto and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the receipt of One Dollar (\$1.00) from **Joseph C. Goffreda** to **Rutgers, The State University of New Jersey**, the receipt of which is hereby acknowledged, I, **Joseph C. Goffreda**, hereby sell, assign and transfer to **Rutgers, The State University of New Jersey**, my full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by **Rutgers, The State University of New Jersey**, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by me had this assignment and sale not been made, and covenant that I have full right so to do, and agree that I will communicate to **Rutgers, The State University of New Jersey**, or its successors and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all

divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Rutgers, The State University of New Jersey, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

I hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on any applications as aforesaid, to issue to Rutgers, The State University of New Jersey, as assignee of the entire right, title, and interest, any and all Letters Patent for said invention or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

Executed at the place and date opposite my signature below.

Joseph C. Goffreda  
Joseph C. Goffreda

At NEWBRUNSWICK, N.J.  
(City and State)  
on this 30 day of November, 2005.

STATE OF N.J. )  
 )  
COUNTY OF MIDDLESEX ) ss.

This 30 day of November, 2005, before me personally came the above-named Joseph C. Goffreda, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Patricia Bydeh

Notary Public For N.J.

My commission expires: 8-22-07

[SEAL]

AUG 24 2007

Atty. Ref. No. 6551-61555-01

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ALEXANDRIA, VA 22313-1450

**1. Total number of pages including cover sheet, attachments and document: 2****2. Name of Conveying Party(ies) and Execution Date(s) of Document(s)** ☐ Check here if additional name(s) attached

Name(s): Schuyler S. Korban  
Execution Date(s): December 6, 2005

**3. Name and address of receiving party** ☐ Check here if additional name(s) & address(es) are attached

Name The Board of Trustees of the University of Illinois  
Address 506 South Wright Street  
City Urbana State/Country IL Zip 61801

**4. Nature of Conveyance**

☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:

**5. Total number of applications and patents involved: 1****6. Total Fee authorized to be charged to deposit account 02-4550 (37 C.F.R. § 3.41): \$40.00****7. ☒ Check here if any deficiency/overpayment is authorized to be charged to deposit account 02-4550****8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.**

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B. ☒ Patent Application No.(s) or Patent No.(s): PP13,819

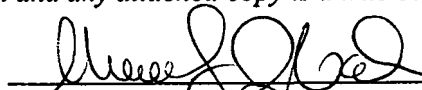
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Sheree Lynn Rybak, Ph.D.  
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Portland, Oregon 97204-2988  
Telephone: 503-595-5300  
Facsimile: 503-228-9446

**10. ☐ Please return the attached postcard to confirm that these items have been received.****11. Statement and signature** *To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Sheree Lynn Rybak, Ph.D.  
Name of Person Signing

  
Signature

December 7, 2005  
Date

## ASSIGNMENT

**WHEREAS, I, Schuyler S. Korban** of 3405 Pinegrove Place, Champaign, Illinois 61822, hereinafter referred to as Assignors, have invented as joint inventors with Jules Janick, Edwin B. Williams, and Joseph Goffreda a certain invention entitled **APPLE TREE 'CO-OP 29'** filed on December 21, 2001, assigned Application Serial No. 10/032,052, and issued on May 13, 2003 as PP13,819 and

**WHEREAS, THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS**, a body corporate and politic of the State of Illinois, having its principal place of business in 506 South Wright Street, Urbana, IL, 61801, hereinafter called the Assignee, is desirous of acquiring or confirming its acquisition of our entire rights, titles and interests in, to and under said invention and in, to and under said Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

**NOW, THEREFORE, FOR GOOD AND VALUABLE CONSIDERATION FROM THE ASSIGNEE**, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer unto the Assignee, its successors and assigns, our entire rights, titles and interests in, to and under said applications for Letters Patent of the United States, including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

**AND FOR THE ABOVE CONSIDERATION**, I agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation, or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said applications and all patent rights therein, in the United States and in any country foreign thereto.

IN WITNESS WHEREOF, I, Schuyler S. Korban hereunto set my hand and seal this 6 day of December 2005.

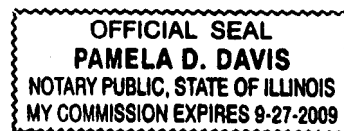


Schuyler S. Korban

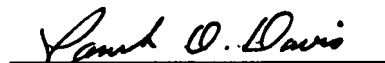
State of Illinois

County of Champaign

)  
) ss.  
)



Before me this 6 day of December, 2005, personally appeared Schuyler S. Korban, who is to me known, and acknowledged the foregoing instrument of assignment to be his free act and deed.

  
Notary Public

\*\*\*\*\*  
\*\*\* TX REPORT \*\*\*  
\*\*\*\*\*

TRANSMISSION OK

TX/RX NO 0038  
CONNECTION TEL 8p15712738155501P  
SUBADDRESS  
CONNECTION ID  
ST. TIME 12/05 14:57  
USAGE T 01'45  
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Atty. Ref. No. 6551-61555-01

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Execution Date(s): November 30, 2005

**3. Name and address of receiving party** ☐ Check here if additional name(s) & address(es) are attached  
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Address Old Queens, Somerset Street  
City New Brunswick State/Country NJ Zip 08903

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☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:

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A. ☐ This document is being filed with a new application. Execution date is: \_\_\_\_\_  
B. ☒ Patent Application No.(s) or Patent No.(s): PP13,819  
☐ Check here if additional numbers are attached

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Sheree Lynn Rybak, Ph.D.  
Klarquist Sparkman, LLP  
One World Trade Center, Suite 1600  
121 S.W. Salmon Street  
Portland, Oregon 97204-2988  
Telephone: 503-595-5300

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 31, 2006

PTAS

**\*700228904A\*****\*700228904A\***

SHEREE LYNN RYBAK, PH.D.  
KLARQUIST SPARKMAN, LLP  
ONE WORLD TRADE CENTER, SUITE 1600  
121 S.W. SALMON STREET  
PORTLAND, OREGON 97204-2988

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/06/2005

REEL/FRAME: 017089/0307  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

✓ GOFFREDA, JOSEPH C.

DOC DATE: 11/30/2005

ASSIGNEE:

✓ RUTGERS, THE STATE UNIVERSITY OF  
NEW JERSEY  
OLD QUEENS, SOMERSET STREET  
NEW BRUNSWICK, NEW JERSEY 08903

SERIAL NUMBER: 10032052

PATENT NUMBER: PP13819

TITLE: APPLE TREE NAMED 'CO-OP 29'

FILING DATE: 12/21/2001

ISSUE DATE: 05/13/2003

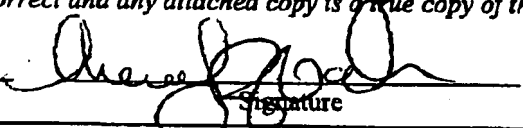
017089/0307 PAGE 2

JOANN STEWART, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION



SLR:dm 12/05/05 459330.doc 61003.00.115

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9. Correspondent's name, address, and telephone number Sheree Lynn Rybak, Ph.D. Klarquist Sparkman, LLP One World Trade Center, Suite 1600 121 S.W. Salmon Street Portland, Oregon 97204-2988 Telephone: 503-595-5300 Facsimile: 503-228-9446	
10. <input type="checkbox"/> Please return the attached postcard to confirm that these items have been received.	
11. Statement and signature <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  Sheree Lynn Rybak, Ph.D.  December 5, 2005 Name of Person Signing Signature Date	

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cc: Accounting  
Docketing

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To: Name: SHEREE LYNN RYBAK, PH.D.  
Company: KLARQUIST SPARKMAN, LLP  
Fax Number: 15032289446  
Voice Phone:

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1	Cover Page
2	46.TXT
4	Document 1, Batch 567612

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Date and time of transmission: Tuesday, January 31, 2006 1:18:40 PM  
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## ASSIGNMENT

WHEREAS, I, **Joseph C. Goffreda**, of Millstone Township, County of Monmouth, State of New Jersey, have invented with **Jules Janick**, of West Lafayette, County of Tippecanoe, State of Indiana, **Edwin B. Williams**, of Lafayette, County of Tippecanoe, State of Indiana, and **Schuyler S. Korban**, of Champaign, County of Champaign, State of Illinois, a certain invention entitled **APPLE TREE NAMED 'CO-OP 29'**, for which Letters Patent of the United States issued on May 13, 2003 as U.S. Patent No. PP13,819; and

WHEREAS, **Rutgers, The State University of New Jersey**, of Old Queens, Somerset Street, New Brunswick, NJ 08903, is desirous of acquiring my entire right, title, and interest in and to the said invention and improvements in and to the said application and to any patent application(s) corresponding thereto and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the receipt of One Dollar (\$1.00) from **Joseph C. Goffreda** to **Rutgers, The State University of New Jersey**, the receipt of which is hereby acknowledged, I, **Joseph C. Goffreda**, hereby sell, assign and transfer to **Rutgers, The State University of New Jersey**, my full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by **Rutgers, The State University of New Jersey**, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by me had this assignment and sale not been made, and covenant that I have full right so to do, and agree that I will communicate to **Rutgers, The State University of New Jersey**, or its successors and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all

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I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on any applications as aforesaid, to issue to Rutgers, The State University of New Jersey, as assignee of the entire right, title, and interest, any and all Letters Patent for said invention or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

Executed at the place and date opposite my signature below.

Joseph C. Goffreda  
Joseph C. Goffreda

At NEWBRUNSWICK, N.J.  
(City and State)

on this 30 day of November, 2005.

STATE OF N.J. )  
 )  
COUNTY OF Middlesex ) ss.

This 30 day of November, 2005, before me personally came the above-named Joseph C. Goffreda, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Patricia Bydek  
Notary Public For N.J.  
My commission expires: 8-22-07

[SEAL]

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 01, 2006

PTAS

**\*700229443A\*****\*700229443A\***

SHEREE LYNN RYBAK, PH.D.  
KLARQUIST SPARKMAN, LLP  
ONE WORLD TRADE CENTER, SUITE 1600  
121 S.W. SALMON STREET  
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REEL/FRAME: 017097/0529

NUMBER OF PAGES: 2

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## ASSIGNOR:

KORBAN, SCHUYLER S.

DOC DATE: 12/06/2005

## ASSIGNEE:

BOARD OF TRUSTEES OF THE  
UNIVERSITY OF ILLINOIS, THE  
506 SOUTH WRIGHT STREET  
URBANA, ILLINOIS 61801

SERIAL NUMBER: 10032052

PATENT NUMBER: PP13819

TITLE: APPLE TREE NAMED 'CO-OP 29'

FILING DATE: 12/21/2001

ISSUE DATE: 05/13/2003

017097/0529 PAGE 2

MARY BENTON, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

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CH \$40.00 024550 PP13819

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# ASSIGNMENT

WHEREAS, I, Schuyler S. Korban of 3405 Pinegrove Place, Champaign, Illinois 61822, hereinafter referred to as Assignors, have invented as joint inventors with Jules Janick, Edwin B. Williams, and Joseph Goffreda a certain invention entitled APPLE TREE 'CO-OP 29' filed on December 21, 2001, assigned Application Serial No. 10/032,052, and issued on May 13, 2003 as PP13,819 and

WHEREAS, THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, a body corporate and politic of the State of Illinois, having its principal place of business in 506 South Wright Street, Urbana, IL, 61801, hereinafter called the Assignee, is desirous of acquiring or confirming its acquisition of our entire rights, titles and interests in, to and under said invention and in, to and under said Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, FOR GOOD AND VALUABLE CONSIDERATION FROM THE ASSIGNEE, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer unto the Assignee, its successors and assigns, our entire rights, titles and interests in, to and under said applications for Letters Patent of the United States, including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

AND FOR THE ABOVE CONSIDERATION, I agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation, or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said applications and all patent rights therein, in the United States and in any country foreign thereto.

IN WITNESS WHEREOF, I, Schuyler S. Korban hereunto set my hand and seal this 6 day of December 2005.

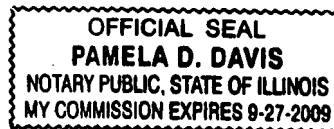


Schuyler S. Korban

State of Illinois

County of Champaign

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) ss.  
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Before me this 6 day of December, 2005, personally appeared Schuyler S. Korban, who is to me known, and acknowledged the foregoing instrument of assignment to be his free act and deed.

Pamela D. Davis  
Notary Public